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**PHOTOGRAPHIC
INTERPRETATION
REPORT**

**NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER**

**POSSIBLE VLF-DF ARRAYS AT
SOVIET KRUG COMMUNICATIONS
SUPPORT FACILITIES, USSR**

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**AUGUST 1974
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INSTALLATION OR ACTIVITY NAME

COUNTRY

Possible VLF-DF Arrays at Soviet KRUG Communications Support Facilities

UR

UTM COORDINATES

GEOGRAPHIC COORDINATES

SE NO.

COMIREX NO.

NIETB NO.

25X1

NA

See below

See below

See below

See below

MAP REFERENCE

ACIC. USATC, Series 200, scale 1:200,000

LATEST IMAGERY USED

NEGATION DATE (if required)

NA

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Facility

Geographic
Coordinates

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Beringovskiy Radcom Rcvr Sta
KRUG Spt 63-03-30N 179-08-50ESergeyevka Radcom Rcvr Sta
KRUG 2 Spt 48-26-47N 135-22-30EOdessa Radcom Rcvr Sta KRUG
1 Spt 46-26-33N 030-29-59EVorkuta Radcom Rcvr Sta KRUG
Spt 67-37-49N 064-07-18E

ABSTRACT

1. This report describes arrays possibly used for very-low-frequency direction-finding which have been observed at four Soviet KRUG radio communications receiving support stations.
2. The report contains a listing of the four facilities, an annotated photograph of each array, a location map, and a table of mensural data on each antenna array.



FIGURE 1. LOCATIONS OF POSSIBLE VLF-DF ARRAYS AT SOVIET KRUG COMMUNICATIONS SUPPORT FACILITIES

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TOP SECRET RUFF**INTRODUCTION**

3. An array possibly used for very-low-frequency direction-finding (VLF-DF) has been identified at four Soviet KRUG radio communications receiving support stations (Figure 1).

4. The array is similar in configuration and size to the Canadian CROSSED LOOPS array which has been used for VLF-DF.

BASIC DESCRIPTION

5. Each array consists of four short masts (items A - D, Figures 2 - 5) in a square configuration with a taller mast (item E) in the center. The antenna elements appear to extend from the top of the tall mast down to the top of each of the four shorter masts. There are two unidentified objects on the central tall mast which appear to be circular and are [REDACTED] Table 1, which is keyed to Figures 2 through 5, provides mensuration of the four arrays.

6. The array is adjacent to the control building at each of the four facilities. The configuration of the array appears to be the same at each of the four facilities except Odessa, where only three of the shorter masts could be identified.

REFERENCES**MAPS OR CHARTS**

ACIC. Various US Air Target Charts, Series 200, scale 1:200,000

REQUIREMENT

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Project 340100

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